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COUNTRY

USSR

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SUBJECT

Technological information: Soviet Experiments- NO. OF PAGES 1 tion and Results in Substitute Non-Ferrous Metals

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COMPEDENTIAL

SUPPLEMENT TO REPORT NO.

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- Experiments are being conducted in several factories in the Vladivostok area in an effort to replace non-ferrous metals such as tin, which is in inadequate supply in the USSR, with suitable substitutes to be used in the manufacture of machinery and automobile parte.
- The use of substitute metals in two factories near Vladivostok-othe Metarisut 1º Metallist/ Machinery Factory and the Brake Machinery Factory-had progressed to such an extent by April 1947 that 250 tons of tin, 320 tons of copper, 280 tons of brass and 345 tons of aluminum had been saved.
- 3. Although the quality of the substitutes is questionable in some cases, in general they compare favorably with the original metal. For example, at the Brake Machinery Factory, spark pluge made from pig iron have been found to have four times the lafe of those made of bronze.
- 4. Another example of substitution is the use of a cheen alloy in the production of diesel engine and tractor bearings [factory unstated] which had formarly been made from a brouse alloy containing a high percentage of tir. At the Motarisut /sic/ Machinery Factory a grought iron statistic for tin and broase is used for making machine parts. An alloy of graphite and steel /high cerbon steel has been successfully used is replacing bronze in the production of gears for electric tractors used underground I? mining machinery. Tests have shown that the alloy goars, tempered in electric furnaces and turned on ordinary lathes, are durable and not earlly cracked.



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